

Figure 2

M A V L G L L F C L V T F P S C
ATG GCT GTC TTG GGG CTG CTC TTC TGC CTG GTG ACA TTC CCA AGC TGT
V L S
GTC CTG TCC (-1 to -19, Leader)

Q V Q V K E S G P F L V P P S Q
CAG GTG CAG GTG AAG GAG TCA GGA CCT TTC CTG GTG CCC CCC TCA CAG
S L S I T C T V S G F S L T
AGC CTG TCC ATC ACA TGC ACT GTC TCA GGG TTC TCA TTA ACC
(1-30, Frame work 1)

T Y G V S
ACC TAT GGT GTA AGC (31-35, CDR 1)

W I R Q P P G K G L E W L G
TGG ATT CGC CAG CCT CCA GGA AAG GGT CTG GAG TGG CTG GGA
(36-49, Frame work 2)

A I W G D G T T N Y H S A L I S
GCA ATT TGG GGT GAC GGG ACC ACA AAT TAT CAT TCA GCT CTC ATA TCC
(50-65, CDR 2)

R L S I S K D N S K S Q V F L K
AGA CTG AGC ATC AGC AAG GAT AAC TCC AAG AGC CAA GTT TTC TTA AAA
L N S L Q T D D T A T Y Y C A K
CTG AAC AGT CTG CAA ACT GAT GAC ACG GCC ACG TAC TAC TGT GCC AAA
(66-97, Frame work 3)

L G N Y D A L D W
CTG GGT AAC TAC GAT GCT CTG GAC TAC
(98-106, CDR 3)

W G Q G T S V T V S S
TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA
(107-117, Frame work 4)

A K T T P P P V Y P L V P G S L
GCC AAA ACG ACA CCC CCA CCC GTC TAT CCA TTG GTC CCT GGA AGC TTG GG
(Constant region)

Figure 3(B)

1A7: 1 QVQVKESGPFLLVPPSQSLSTICTVSGFSLTTYGVSWIROPPGKGLEMLGAIWGDGTTNYH 60

1	1	.G.A.....S...V.....V....S....	52
2	1	..LQ...G.A.....S.IT.V.....V...N....	60
3	20	...L...G.A.....G.N.V.....T...N.S.D.N	79
4	1	...L..T.G.A.....S.H.V.....VV..S...N	60
5	1	...L...G.A.....S.H.V.....V..AG.S...N	60
6	1	...L...G.A.....S.H.V.....V..AG.S...N	60
7	1	...L...G.A.....P.S.D.V.....V...G.S...N	60
8	23	...LQ...G.A.....G..N.V.....M....N.D.N	82
9	1	...L...G.A.....G..N.V.....M....N.D.N	60
10	133	...LQ...G.A.....G..N.V.....M....N.D.N	192
11	20	...L...G.A.....G..N.V.....M....N.D.N	79
12	1	...L...G.A.....SR.S.H.V.....M...G.N.D.N	60
13	21	..HL...V.A.....N..H.V.....V..AG.N...N	80
14	23	...LQ...G.A.....G..N.V.....M....N.D.N	82
15	1	...LQ...G.A.....G..N.V.....M....N.D.N	60

1A7: 61 SALISRLSISKDNKSQVFLKLNLSLQDDDTATYYCAKL-----DYNW GNYDALBMSQGTSTVTYSS 117

1	53P-----YDYExxxxxY.....TL..	109
2	61x-----xxxxxxxK.....	120
3	80	..T.K...T.T.....M.....R...SVSIYYYGRSDK.FT.....	144
4	61	...K.....M.....M...Rx-----xx.D.Y.M.....	119
5	61	...M.....M.....M...Rx-----xxxxxx.Y.M.....	120
6	61	...M.....M.....M...Rx-----xxxx.Y.M.....	118
7	61	...M.....M...X...M...xx-----xxx.X.Y.M.....	119
8	83	...K.....M..H...R...RE-----RDYR.....T....	138
9	61	...K.....M..H...R...RE-----RDYR.....TL....	116
10	193	...K.....M..H...R...RE-----RDYR.....T....	248
11	80	...K.....M..H...R...RE-----RDYR.....TL....	135
12	61	...K.....M.....M...RD-----GYDxx.M.....	117
13	81	...M.....M...I...I...x-----xxxxx.Y.M.....	139
14	83	...K.....M..H...R...RE-----RDYR.....T....	138
15	61	...K.....M..H...R...RE-----RDYR.....T....	116

Figure 3(C)

```

*****
VL consensus: 1 DVLHTQTPLSLPVS LGDQASISCRSSQSI VHSNGNTYLEWYLQKKGQSPKLLIYFVSNRF 60
1A7: 1 .....P...N..... 60

```

```

*
*****
VL consensus: 61 SGVPDRFSGSGSGDTFTLKISRVEAEDLGVYYCFQGSHPVPTFGGGTKLEIK 112
1A7: 61 ..... 112

```

```

*****
VH consensus: 1 QVQLKESGPGLVAPSQSLITCTVSGFSLTSYGVHWVRQPPGKGLEWLGVIWGDSGTNYN 60
1A7: 1 ...V....F..P.....T...S.I.....A....T...H 60

```

```

*****
VH consensus: 61 SALKSRLSISKDNKSQVFLKMNSLQTDDTARYYCARExxxxYYAMDYWGQGSVTVSS 119
1A7: 61 ...I.....L.....T...KL--GN.D.T... 117

```